

Thr Asp Pro Glu Val Thr Asn Tyr Ser Leu Lys Gly Cys Gln Gly Lys			
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cct ctt ccc aag gac ttg agg ttt att cct gac ccc aag gcg ggc atc			531
Pro Leu Pro Lys Asp Leu Arg Phe Ile Pro Asp Pro Lys Ala Gly Ile			
155	160	165	170
atg atc aaa agt gtg aaa cgc gcc tac cat cgg ctc tgt ctg cat tgt			579
Met Ile Lys Ser Val Lys Arg Ala Tyr His Arg Leu Cys Leu His Cys			
175	180	185	
tct gtg gac cag gag ggc aag tca gtg ctg tcg gaa aaa ttc atc ctg			627
Ser Val Asp Gln Glu Gly Lys Ser Val Leu Ser Glu Lys Phe Ile Leu			
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aaa gtg agg cca gcc ttc aaa gct gtg cct gtt gtg tct gtg tcc aaa			675
Lys Val Arg Pro Ala Phe Lys Ala Val Pro Val Val Ser Val Ser Lys			
205	210	215	
gca agc tat ctt ctt agg gaa ggg gaa gaa ttc aca gtg acg tgc aca			723
Ala Ser Tyr Leu Leu Arg Glu Gly Glu Phe Thr Val Thr Cys Thr			
220	225	230	
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Ile Lys Asp Val Ser Ser Val Tyr Ser Thr Trp Lys Arg Glu Asn			
235	240	245	250
agt cag act aaa cta cag gag aaa tat aat agc tgg cat cac ggt gac			819
Ser Gln Thr Lys Leu Gln Glu Lys Tyr Asn Ser Trp His His Gly Asp			
255	260	265	
ttc aat tat gaa cgt cag gca acg ttg act atc agt tca gcg aga gtt			867
Phe Asn Tyr Glu Arg Gln Ala Thr Leu Thr Ile Ser Ser Ala Arg Val			
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Asn Asp Ser Gly Val Phe Met Cys Tyr Ala Asn Asn Thr Phe Gly Ser			
285	290	295	
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Ala Asn Val Thr Thr Leu Glu Val Val Asp Lys Gly Phe Ile Asn			
300	305	310	
atc ttc ccc atg ata aac act aca gta ttt gta aac gat gga gaa aat			1011
Ile Phe Pro Met Ile Asn Thr Thr Val Phe Val Asn Asp Gly Glu Asn			
315	320	325	330
gta gat ttg att gtt gaa tat gaa gca ttc ccc aaa cct gaa cac cag			1059
Val Asp Leu Ile Val Glu Tyr Glu Ala Phe Pro Lys Pro Glu His Gln			
335	340	345	
cag tgg atc tat atg aac aga acc ttc act gat aaa tgg gaa gat tat			1107
Gln Trp Ile Tyr Met Asn Arg Thr Phe Thr Asp Lys Trp Glu Asp Tyr			
350	355	360	
ccc aag tct gag aat gaa agt aat atc aga tac gta agt gaa ctt cat			1155
Pro Lys Ser Glu Asn Glu Ser Asn Ile Arg Tyr Val Ser Glu Leu His			
365	370	375	
cta acg aga tta aaa ggc acc gaa gga ggc act tac aca ttc cta gtg			1203
Leu Thr Arg Leu Lys Gly Thr Glu Gly Gly Thr Tyr Thr Phe Leu Val			
380	385	390	

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Ser Asn Ser Asp Val Asn Ala Ala Ile Ala Phe Asn Val Tyr Val Asn		
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aca aaa cca gaa atc ctg act tac gac agg ctc gtg aat ggc atg ctc		1299
Thr Lys Pro Glu Ile Leu Thr Tyr Asp Arg Leu Val Asn Gly Met Leu		
415 420 425		
caa tgt gtg gca gca gga ttc cca gag ccc aca ata gat tgg tat ttt		1347
Gln Cys Val Ala Ala Gly Phe Pro Glu Pro Thr Ile Asp Trp Tyr Phe		
430 435 440		
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Cys Pro Gly Thr Glu Gln Arg Cys Ser Ala Ser Val Leu Pro Val Asp		
445 450 455		
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Val Gln Thr Leu Asn Ser Ser Gly Pro Pro Phe Gly Lys Leu Val Val		
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Gln Ser Ser Ile Asp Ser Ser Ala Phe Lys His Asn Gly Thr Val Glu		
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Cys Lys Ala Tyr Asn Asp Val Gly Lys Thr Ser Ala Tyr Phe Asn Phe		
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Ala Phe Lys Gly Asn Asn Lys Glu Gln Ile His Pro His Thr Leu Phe		
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Thr Pro Leu Leu Ile Gly Phe Val Ile Val Ala Gly Met Met Cys Ile		
525 530 535		
att gtg atg att ctg acc tac aaa tat tta cag aaa ccc atg tat gaa		1683
Ile Val Met Ile Leu Thr Tyr Lys Tyr Leu Gln Lys Pro Met Tyr Glu		
540 545 550		
gta cag tgg aag gtt gtt gag gag ata aat gga aac aat tat gtt tac		1731
Val Gln Trp Lys Val Val Glu Glu Ile Asn Gly Asn Asn Tyr Val Tyr		
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ata gac cca aca caa ctt cct tat gat cac aaa tgg gag ttt ccc aga		1779
Ile Asp Pro Thr Gln Leu Pro Tyr Asp His Lys Trp Glu Phe Pro Arg		
575 580 585		
aac agg ctg agt ttt ggg aaa acc ctg ggt gct gga gct ttc ggg aag		1827
Asn Arg Leu Ser Phe Gly Lys Thr Leu Gly Ala Gly Ala Phe Gly Lys		
590 595 600		
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Val Val Glu Ala Thr Ala Tyr Gly Leu Ile Lys Ser Asp Ala Ala Met		
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act gtc gct gta aag atg ctc aag ccg agt gcc cat ttg aca gaa cgg		1923
Thr Val Ala Val Lys Met Leu Lys Pro Ser Ala His Leu Thr Glu Arg		
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gaa gcc ctc atg tct gaa ctc aaa gtc ctg agt tac ctt ggt aat cac		1971
Glu Ala Leu Met Ser Glu Leu Lys Val Leu Ser Tyr Leu Gly Asn His		
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ctg gtc att aca gaa tat tgt tgc tat ggt gat ctt ttg aat ttt ttg Leu Val Ile Thr Glu Tyr Cys Cys Tyr Gly Asp Leu Leu Asn Phe Leu 670 675 680	2067
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cta att gag aag cag att tca gag agc acc aat cat att tac tcc aac Leu Ile Glu Lys Gln Ile Ser Glu Ser Thr Asn His Ile Tyr Ser Asn 925 930 935	2835
tta gca aac tgc agc ccc aac cga cag aag ccc gtg gta gac cat tct Leu Ala Asn Cys Ser Pro Asn Arg Gln Lys Pro Val Val Asp His Ser 940 945 950	2883
gtg cg _g atc aat tct gtc ggc agc acc gct tcc tcc tcc cag cct ctg Val Arg Ile Asn Ser Val Gly Ser Thr Ala Ser Ser Ser Gln Pro Leu 955 960 965 970	2931
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Arg Val Gly Asp Glu Ile Arg Leu Leu Cys Thr Asp Pro Gly Phe Val
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Lys Trp Thr Phe Glu Ile Leu Asp Glu Thr Asn Glu Asn Lys Gln Asn
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Glu Trp Ile Thr Glu Lys Ala Glu Ala Thr Asn Thr Gly Lys Tyr Thr
 85 90 95

Cys Thr Asn Lys His Gly Leu Ser Asn Ser Ile Tyr Val Phe Val Arg
100 105 110

Asp Pro Ala Lys Leu Phe Leu Val Asp Arg Ser Leu Tyr Gly Lys Glu
115 120 125

Asp Asn Asp Thr Leu Val Arg Cys Pro Leu Thr Asp Pro Glu Val Thr
130 135 140

Asn Tyr Ser Leu Lys Gly Cys Gln Gly Lys Pro Leu Pro Lys Asp Leu
145 150 155 160

Arg Phe Ile Pro Asp Pro Lys Ala Gly Ile Met Ile Lys Ser Val Lys
165 170 175

Arg Ala Tyr His Arg Leu Cys Leu His Cys Ser Val Asp Gln Glu Gly
180 185 190

Lys Ser Val Leu Ser Glu Lys Phe Ile Leu Lys Val Arg Pro Ala Phe
195 200 205

Lys Ala Val Pro Val Val Ser Val Ser Lys Ala Ser Tyr Leu Leu Arg
210 215 220

Glu Gly Glu Glu Phe Thr Val Thr Cys Thr Ile Lys Asp Val Ser Ser
225 230 235 240

Ser Val Tyr Ser Thr Trp Lys Arg Glu Asn Ser Gln Thr Lys Leu Gln
245 250 255

Glu Lys Tyr Asn Ser Trp His His Gly Asp Phe Asn Tyr Glu Arg Gln
260 265 270

Ala Thr Leu Thr Ile Ser Ser Ala Arg Val Asn Asp Ser Gly Val Phe
275 280 285

Met Cys Tyr Ala Asn Asn Thr Phe Gly Ser Ala Asn Val Thr Thr Thr
290 295 300

Leu Glu Val Val Asp Lys Gly Phe Ile Asn Ile Phe Pro Met Ile Asn
305 310 315 320

Thr Thr Val Phe Val Asn Asp Gly Glu Asn Val Asp Leu Ile Val Glu
325 330 335

Tyr Glu Ala Phe Pro Lys Pro Glu His Gln Gln Trp Ile Tyr Met Asn
340 345 350

Arg Thr Phe Thr Asp Lys Trp Glu Asp Tyr Pro Lys Ser Glu Asn Glu
355 360 365

Ser Asn Ile Arg Tyr Val Ser Glu Leu His Leu Thr Arg Leu Lys Gly
370 375 380

Thr Glu Gly Gly Thr Tyr Thr Phe Leu Val Ser Asn Ser Asp Val Asn
385 390 395 400

Ala Ala Ile Ala Phe Asn Val Tyr Val Asn Thr Lys Pro Glu Ile Leu
405 410 415

Thr Tyr Asp Arg Leu Val Asn Gly Met Leu Gln Cys Val Ala Ala Gly
420 425 430

Phe Pro Glu Pro Thr Ile Asp Trp Tyr Phe Cys Pro Gly Thr Glu Gln
435 440 445

Arg Cys Ser Ala Ser Val Leu Pro Val Asp Val Gln Thr Leu Asn Ser
450 455 460

Ser Gly Pro Pro Phe Gly Lys Leu Val Val Gln Ser Ser Ile Asp Ser
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Ser Ala Phe Lys His Asn Gly Thr Val Glu Cys Lys Ala Tyr Asn Asp
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Val Gly Lys Thr Ser Ala Tyr Phe Asn Phe Ala Phe Lys Gly Asn Asn
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Lys Glu Gln Ile His Pro His Thr Leu Phe Thr Pro Leu Leu Ile Gly
515 520 525

Phe Val Ile Val Ala Gly Met Met Cys Ile Ile Val Met Ile Leu Thr
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Tyr Lys Tyr Leu Gln Lys Pro Met Tyr Glu Val Gln Trp Lys Val Val
545 550 555 560

Glu Glu Ile Asn Gly Asn Asn Tyr Val Tyr Ile Asp Pro Thr Gln Leu
565 570 575

Pro Tyr Asp His Lys Trp Glu Phe Pro Arg Asn Arg Leu Ser Phe Gly
580 585 590

Lys Thr Leu Gly Ala Gly Ala Phe Gly Lys Val Val Glu Ala Thr Ala
595 600 605

Tyr Gly Leu Ile Lys Ser Asp Ala Ala Met Thr Val Ala Val Lys Met
610 615 620

Leu Lys Pro Ser Ala His Leu Thr Glu Arg Glu Ala Leu Met Ser Glu
625 630 635 640

Leu Lys Val Leu Ser Tyr Leu Gly Asn His Met Asn Ile Val Asn Leu
645 650 655

Leu Gly Ala Cys Thr Ile Gly Gly Pro Thr Leu Val Ile Thr Glu Tyr
660 665 670

Cys Cys Tyr Gly Asp Leu Leu Asn Phe Leu Arg Arg Lys Arg Asp Ser
675 680 685

Phe Ile Cys Ser Lys Gln Glu Asp His Ala Glu Ala Ala Leu Tyr Lys
690 695 700

Asn Leu Leu His Ser Lys Glu Ser Ser Cys Ser Asp Ser Thr Asn Glu
705 710 715 720

Tyr Met Asp Met Lys Pro Gly Val Ser Tyr Val Val Pro Thr Lys Ala
725 730 735

Asp Lys Arg Arg Ser Val Arg Ile Gly Ser Tyr Ile Glu Arg Asp Val
740 745 750

Thr Pro Ala Ile Met Glu Asp Asp Glu Leu Ala Leu Asp Leu Glu Asp
755 760 765

Leu Leu Ser Phe Ser Tyr Gln Val Ala Lys Gly Met Ala Phe Leu Ala
770 775 780

Ser Lys Asn Cys Ile His Arg Asp Leu Ala Ala Arg Asn Ile Leu Leu
785 790 795 800

Thr His Gly Arg Ile Thr Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp
805 810 815

Ile Lys Asn Asp Ser Asn Tyr Val Val Lys Gly Asn Ala Arg Leu Pro
820 825 830

Val Lys Trp Met Ala Pro Glu Ser Ile Phe Asn Cys Val Tyr Thr Phe
835 840 845

Glu Ser Asp Val Trp Ser Tyr Gly Ile Phe Leu Trp Glu Leu Phe Ser
850 855 860

Leu Gly Ser Ser Pro Tyr Pro Gly Met Pro Val Asp Ser Lys Phe Tyr
865 870 875 880

Lys Met Ile Lys Glu Gly Phe Arg Met Leu Ser Pro Glu His Ala Pro
885 890 895

Ala Glu Met Tyr Asp Ile Met Lys Thr Cys Trp Asp Ala Asp Pro Leu
900 905 910

Lys Arg Pro Thr Phe Lys Gln Ile Val Gln Leu Ile Glu Lys Gln Ile
915 920 925

Ser Glu Ser Thr Asn His Ile Tyr Ser Asn Leu Ala Asn Cys Ser Pro
930 935 940

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Asp Leu Leu Cys Val Leu Val Leu Leu Arg Gly Gln Thr Ala Thr
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tct cag cca tct gca agt cca ggg gag ccg tct ccg cca tcc atc cat 148
Ser Gln Pro Ser Ala Ser Pro Gly Glu Pro Ser Pro Pro Ser Ile His
25 30 35 40

cca gca caa tca gag tta ata gtt gaa gct ggc gac acc ctc agc ctg 196
Pro Ala Gln Ser Glu Leu Ile Val Glu Ala Gly Asp Thr Leu Ser Leu
45 50 55

acg tgc att gat ccc gac ttt gtc aga tgg act ttc aag acc tat ttc 244
Thr Cys Ile Asp Pro Asp Phe Val Arg Trp Thr Phe Lys Thr Tyr Phe
60 65 70

aat gaa atg gtt gag aat aaa aaa aat gaa tgg atc cag gaa aaa gcc 292
Asn Glu Met Val Glu Asn Lys Lys Asn Glu Trp Ile Gln Glu Lys Ala
75 80 85

gag gcc act cgc acg ggc aca tac acg tgc agc aac agc aat ggc ctc		340	
Glu Ala Thr Arg Thr Gly Thr Tyr Thr Cys Ser Asn Ser Asn Gly Leu			
90	95	100	
acg agt tct att tac gtg ttt gtt aga gat cct gcc aaa ctt ttc ctg		388	
Thr Ser Ser Ile Tyr Val Phe Val Arg Asp Pro Ala Lys Leu Phe Leu			
105	110	115	120
gtt ggc ctt ccc ttg ttt ggc aaa gaa gac agc gac gcg ctg gtc cgc		436	
Val Gly Leu Pro Leu Phe Gly Lys Glu Asp Ser Asp Ala Leu Val Arg			
125	130	135	
tgc cct ctg aca gac cca cag gtg tcc aat tat tcc ctc atc gag tgt		484	
Cys Pro Leu Thr Asp Pro Gln Val Ser Asn Tyr Ser Leu Ile Glu Cys			
140	145	150	
gat ggg aaa tct ctc ccc acg gac ctg acg ttt gtc cca aac ccc aag		532	
Asp Gly Lys Ser Leu Pro Thr Asp Leu Thr Phe Val Pro Asn Pro Lys			
155	160	165	
gct ggc atc acc atc aaa aac gtg aag cgc gcc tac cac cgg ctc tgt		580	
Ala Gly Ile Thr Ile Lys Asn Val Lys Arg Ala Tyr His Arg Leu Cys			
170	175	180	
gtc cgc tgt gct cag cgt gac ggt aca tgg ctg cat tct gac aaa		628	
Val Arg Cys Ala Ala Gln Arg Asp Gly Thr Trp Leu His Ser Asp Lys			
185	190	195	200
tcc acc ctc aaa gtg cggt gaa gcc atc aag gct atc cct gtt gtg tct		676	
Phe Thr Leu Lys Val Arg Glu Ala Ile Lys Ala Ile Pro Val Val Ser			
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Val Cys Thr Ile Lys Asp Val Ser Thr Ser Val Asn Ser Met Trp Leu			
235	240	245	
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Lys Met Asn Pro Gln Pro Gln His Ile Ala Gln Val Lys His Asn Ser			
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tgg cac cgg ggt gac ttc aat tat gaa cgc cag gag acg ctg act atc		868	
Trp His Arg Gly Asp Phe Asn Tyr Glu Arg Gln Glu Thr Leu Thr Ile			
265	270	275	280
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Ser Ser Ala Arg Val Asp Asp Ser Gly Val Phe Met Cys Tyr Ala Asn			
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300	305	310	
aaa gga ttc atc aac atc tcc cct gtg aag aac act aca gta ttt gta		1012	
Lys Gly Phe Ile Asn Ile Ser Pro Val Lys Asn Thr Thr Val Phe Val			
315	320	325	
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330	335	340	

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Thr Cys Ser Asn Ser Asn Gly Leu Thr Ser Ser Ile Tyr Val Phe Val
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Ser Asn Tyr Ser Leu Ile Glu Cys Asp Gly Lys Ser Leu Pro Thr Asp
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Leu Thr Phe Val Pro Asn Pro Lys Ala Gly Ile Thr Ile Lys Asn Val
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Lys Arg Ala Tyr His Arg Leu Cys Val Arg Cys Ala Ala Gln Arg Asp
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Gly Thr Trp Leu His Ser Asp Lys Phe Thr Leu Lys Val Arg Glu Ala
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Ile Lys Ala Ile Pro Val Val Ser Val Pro Glu Thr Ser His Leu Leu
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Lys Lys Gly Asp Thr Phe Thr Val Val Cys Thr Ile Lys Asp Val Ser
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Thr Ser Val Asn Ser Met Trp Leu Lys Met Asn Pro Gln Pro Gln His
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Ile Ala Gln Val Lys His Asn Ser Trp His Arg Gly Asp Phe Asn Tyr
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Glu Arg Gln Glu Thr Leu Thr Ile Ser Ser Ala Arg Val Asp Asp Ser
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Val Lys Asn Thr Thr Val Phe Val Thr Asp Gly Glu Asn Val Asp Leu
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Tyr Met Asn Arg Thr Ser Ala Asn Lys Gly Lys Asp Tyr Val Lys Ser
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Leu Lys Gly Thr Glu Gly Gly Thr Tyr Thr Phe Leu Val Ser Asn Ser
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Gln Asn Val Ser Val Ser Pro Phe Gly Lys Leu Val Val Gln Ser Ser
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Tyr Asp His Lys Trp Glu Phe Pro Arg Asn Arg Leu Ser Phe Gly Lys
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Thr Leu Gly Ala Gly Ala Phe Gly Lys Val Val Glu Ala Thr Ala Tyr
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785 790 795 800

Gly Arg Ile Thr Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp Ile Arg
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Gln Thr Gly Thr Ser Gln Pro Ser Ala Ser Pro Gly Glu Pro Ser Pro
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Ile Asn Gly Asn Asn Tyr Val Tyr Ile Asp Pro Thr Gln Leu Pro Tyr	
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gac cac aaa tgg gag ttt ccc aga aac agg ctg agt ttt gga aag acc	1832
Asp His Lys Trp Glu Phe Pro Arg Asn Arg Leu Ser Phe Gly Lys Thr	
585 590 595	
ttg gga gct ggt gcc ttt ggg aag gta gtt gag gcc act gcc tat ggc	1880
Leu Gly Ala Gly Ala Phe Gly Lys Val Val Glu Ala Thr Ala Tyr Gly	
600 605 610	
tta att aag tcg gat gcc gcc atg acg gtt gcc gtc aag atg ctc aaa	1928
Leu Ile Lys Ser Asp Ala Ala Met Thr Val Ala Val Lys Met Leu Lys	
615 620 625	
cca agt gcc cat tta acg gaa agg gag gcc cta atg tca gaa ctg aag	1976
Pro Ser Ala His Leu Thr Glu Arg Glu Ala Leu Met Ser Glu Leu Lys	
630 635 640	
gtc ctg agc tac ctg ggt aat cac atg aat atc gtc aac ctc ctt gga	2024
Val Leu Ser Tyr Leu Gly Asn His Met Asn Ile Val Asn Leu Leu Gly	
645 650 655 660	
gcg tgt acc gtg gga ggg ccc acc ctg gtc att aca gaa tac tgt tgc	2072
Ala Cys Thr Val Gly Gly Pro Thr Leu Val Ile Thr Glu Tyr Cys Cys	
665 670 675	
tat ggt gat ctt ttg aat ttc ttg aga aga aag cgt gac tcg ttt att	2120
Tyr Gly Asp Leu Leu Asn Phe Leu Arg Arg Lys Arg Asp Ser Phe Ile	
680 685 690	
ttc tca aag caa gaa gaa cag gca gac gcc gca ctt tat aag aac ctt	2168
Phe Ser Lys Gln Glu Glu Gln Ala Asp Ala Ala Leu Tyr Lys Asn Leu	
695 700 705	
ctg cat tca aag gag tct tcc tgt gac agc tca aac gag tac atg gac	2216
Leu His Ser Lys Glu Ser Ser Cys Asp Ser Ser Asn Glu Tyr Met Asp	
710 715 720	
atg aag cct ggc gtt tcc tac gtc gta cca acc aag aca gac aaa agg	2264
Met Lys Pro Gly Val Ser Tyr Val Val Pro Thr Lys Thr Asp Lys Arg	
725 730 735 740	
aga tcc gca aga ata gac tcg tat ata gaa aga gac gtg act ccc gcc	2312
Arg Ser Ala Arg Ile Asp Ser Tyr Ile Glu Arg Asp Val Thr Pro Ala	
745 750 755	
atc atg gaa gat gac gag ctg gct ctg gac ctg gaa gat ttg ctg agc	2360
Ile Met Glu Asp Asp Glu Leu Ala Leu Asp Leu Glu Asp Leu Leu Ser	
760 765 770	
ttt tcc tac cag gtg gcc aag ggc atg gcg ttc ctc gcc tcc aag aac	2408
Phe Ser Tyr Gln Val Ala Lys Gly Met Ala Phe Leu Ala Ser Lys Asn	
775 780 785	
tgt att cac aga gat ttg gca gcc agg aat atc ctc ctc act cac ggg	2456
Cys Ile His Arg Asp Leu Ala Ala Arg Asn Ile Leu Leu Thr His Gly	
790 795 800	

cgatcaca aag att tgc gat ttc ggc cta gcc aga gac atc agg aat	805	810	815	820	2504
Arg Ile Thr Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp Ile Arg Asn					
gat tcg aat tac gtg gta aaa gga aat gca cgg ctg ccc gtg aag tgg	825	830	835		2552
Asp Ser Asn Tyr Val Val Lys Gly Asn Ala Arg Leu Pro Val Lys Trp					
atg gca ccg gag agc att ttc aac tgc gtg tac aca ttt gaa agt gac	840	845	850		2600
Met Ala Pro Glu Ser Ile Phe Asn Cys Val Tyr Thr Phe Glu Ser Asp					
gtc tgg tcc tat ggg att ttc ctc tgg gag cta ttc tct cta gga agc	855	860	865		2648
Val Trp Ser Tyr Gly Ile Phe Leu Trp Glu Leu Phe Ser Leu Gly Ser					
agc ccc tac cca ggg atg ccg gtc gat tcc aag ttt tac aag atg atc	870	875	880		2696
Ser Pro Tyr Pro Gly Met Pro Val Asp Ser Lys Phe Tyr Lys Met Ile					
aag gaa ggt ttc cga atg ctc agc cct gag cac gcg cct gcc gca atg	885	890	895	900	2744
Lys Glu Gly Phe Arg Met Leu Ser Pro Glu His Ala Pro Ala Ala Met					
tat gaa gtt atg aag act tgc tgg gat gct gat ccc ctg aaa agg cca	905	910	915		2792
Tyr Glu Val Met Lys Thr Cys Trp Asp Ala Asp Pro Leu Lys Arg Pro					
aca ttc aag cag gtt cag ctc att gag aag cag atc tca gac agc	920	925	930		2840
Thr Phe Lys Gln Val Val Gln Leu Ile Glu Lys Gln Ile Ser Asp Ser					
agc aaa cat att tac tcc aac tta gca aac tgt aac ccc aac cca gag	935	940	945		2888
Ser Lys His Ile Tyr Ser Asn Leu Ala Asn Cys Asn Pro Asn Pro Glu					
aac ccc gtg gtg gac cat tct gtg agg gtc aat tcc gtc ggc agc	950	955	960		2936
Asn Pro Val Val Val Asp His Ser Val Arg Val Asn Ser Val Gly Ser					
agc acc tct tcc aca cag cct ctc ctc gtg cat gag gac gcc tga	965	970	975		2981
Ser Thr Ser Ser Thr Gln Pro Leu Leu Val His Glu Asp Ala					
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gatggttatt ttgtttcct ttgacttgca tcctactcca gggtagcggg atccccgccc					3101
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Glu Pro Ser Pro Pro Ser Ile Gln Pro Ala Gln Ser Glu Leu Ile Val
 35 40 45

Glu Ala Gly Asp Thr Ile Arg Leu Thr Cys Thr Asp Pro Ala Phe Val
 50 55 60

Lys Trp Thr Phe Glu Ile Leu Asp Val Arg Ile Glu Asn Lys Gln Ser
 65 70 75 80

Glu Trp Ile Arg Glu Lys Ala Glu Ala Thr His Thr Gly Lys Tyr Thr
 85 90 95

Cys Val Ser Gly Ser Gly Leu Arg Ser Ser Ile Tyr Val Phe Val Arg
 100 105 110

Asp Pro Ala Val Leu Phe Leu Val Gly Leu Pro Leu Phe Gly Lys Glu
 115 120 125

Asp Asn Asp Ala Leu Val Arg Cys Pro Leu Thr Asp Pro Gln Val Ser
 130 135 140

Asn Tyr Ser Leu Ile Glu Cys Asp Gly Lys Ser Leu Pro Thr Asp Leu
 145 150 155 160

Lys Phe Val Pro Asn Pro Lys Ala Gly Ile Thr Ile Lys Asn Val Lys
 165 170 175

Arg Ala Tyr His Arg Leu Cys Ile Arg Cys Ala Ala Gln Arg Glu Gly
 180 185 190

Lys Trp Met Arg Ser Asp Lys Phe Thr Leu Lys Val Arg Ala Ala Ile
195 200 205

Lys Ala Ile Pro Val Val Ser Val Pro Glu Thr Ser His Leu Leu Lys
210 215 220

Glu Gly Asp Thr Phe Thr Val Ile Cys Thr Ile Lys Asp Val Ser Thr
225 230 235 240

Ser Val Asp Ser Met Trp Ile Lys Leu Asn Pro Gln Pro Gln Ser Lys
245 250 255

Ala Gln Val Lys Arg Asn Ser Trp His Gln Gly Asp Phe Asn Tyr Glu
260 265 270

Arg Gln Glu Thr Leu Thr Ile Ser Ser Ala Arg Val Asn Asp Ser Gly
275 280 285

Val Phe Met Cys Tyr Ala Asn Asn Thr Phe Gly Ser Ala Asn Val Thr
290 295 300

Thr Thr Leu Lys Val Val Glu Lys Gly Phe Ile Asn Ile Phe Pro Val
305 310 315 320

Lys Asn Thr Thr Val Phe Val Thr Asp Gly Glu Asn Val Asp Leu Val
325 330 335

Val Glu Phe Glu Ala Tyr Pro Lys Pro Glu His Gln Gln Trp Ile Tyr
340 345 350

Met Asn Arg Thr Pro Thr Asn Arg Gly Glu Asp Tyr Val Lys Ser Asp
355 360 365

Asn Gln Ser Asn Ile Arg Tyr Val Asn Glu Leu Arg Leu Thr Arg Leu
370 375 380

Lys Gly Thr Glu Gly Gly Thr Tyr Thr Phe Leu Val Ser Asn Ser Asp
385 390 395 400

Val Ser Ala Ser Val Thr Phe Asp Val Tyr Val Asn Thr Lys Pro Glu
405 410 415

Ile Leu Thr Tyr Asp Arg Leu Met Asn Gly Arg Leu Gln Cys Val Ala
420 425 430

Ala Gly Phe Pro Glu Pro Thr Ile Asp Trp Tyr Phe Cys Thr Gly Ala
435 440 445

Glu Gln Arg Cys Thr Val Pro Val Pro Pro Val Asp Val Gln Ile Gln
450 455 460

Asn Ala Ser Val Ser Pro Phe Gly Lys Leu Val Val Gln Ser Ser Ile
465 470 475 480

Asp Ser Ser Val Phe Arg His Asn Gly Thr Val Glu Cys Lys Ala Ser
485 490 495

Asn Ala Val Gly Lys Ser Ser Ala Phe Phe Asn Phe Ala Phe Lys Gly
500 505 510

Asn Ser Lys Glu Gln Ile Gln Pro His Thr Leu Phe Thr Pro Leu Leu
515 520 525

Ile Gly Phe Val Val Thr Ala Gly Leu Met Gly Ile Ile Val Met Val
530 535 540

Leu Ala Tyr Lys Tyr Leu Gln Lys Pro Met Tyr Glu Val Gln Trp Lys
545 550 555 560

Val Val Glu Glu Ile Asn Gly Asn Asn Tyr Val Tyr Ile Asp Pro Thr
565 570 575

Gln Leu Pro Tyr Asp His Lys Trp Glu Phe Pro Arg Asn Arg Leu Ser
580 585 590

Phe Gly Lys Thr Leu Gly Ala Gly Ala Phe Gly Lys Val Val Glu Ala
595 600 605

Thr Ala Tyr Gly Leu Ile Lys Ser Asp Ala Ala Met Thr Val Ala Val
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Lys Met Leu Lys Pro Ser Ala His Leu Thr Glu Arg Glu Ala Leu Met
625 630 635 640

Ser Glu Leu Lys Val Leu Ser Tyr Leu Gly Asn His Met Asn Ile Val
645 650 655

Asn Leu Leu Gly Ala Cys Thr Val Gly Gly Pro Thr Leu Val Ile Thr
660 665 670

Glu Tyr Cys Cys Tyr Gly Asp Leu Leu Asn Phe Leu Arg Arg Lys Arg
675 680 685

Asp Ser Phe Ile Phe Ser Lys Gln Glu Glu Gln Ala Asp Ala Ala Leu
690 695 700

Tyr Lys Asn Leu Leu His Ser Lys Glu Ser Ser Cys Asp Ser Ser Asn
705 710 715 720

Glu Tyr Met Asp Met Lys Pro Gly Val Ser Tyr Val Val Pro Thr Lys
725 730 735

Thr Asp Lys Arg Arg Ser Ala Arg Ile Asp Ser Tyr Ile Glu Arg Asp
740 745 750

Val Thr Pro Ala Ile Met Glu Asp Asp Glu Leu Ala Leu Asp Leu Glu
755 760 765

Asp Leu Leu Ser Phe Ser Tyr Gln Val Ala Lys Gly Met Ala Phe Leu
770 775 780

Ala Ser Lys Asn Cys Ile His Arg Asp Leu Ala Ala Arg Asn Ile Leu
785 790 795 800

Leu Thr His Gly Arg Ile Thr Lys Ile Cys Asp Phe Gly Leu Ala Arg
805 810 815

Asp Ile Arg Asn Asp Ser Asn Tyr Val Val Lys Gly Asn Ala Arg Leu
820 825 830

Pro Val Lys Trp Met Ala Pro Glu Ser Ile Phe Asn Cys Val Tyr Thr
835 840 845

Phe Glu Ser Asp Val Trp Ser Tyr Gly Ile Phe Leu Trp Glu Leu Phe
850 855 860

Ser Leu Gly Ser Ser Pro Tyr Pro Gly Met Pro Val Asp Ser Lys Phe
865 870 875 880

Tyr Lys Met Ile Lys Glu Gly Phe Arg Met Leu Ser Pro Glu His Ala
885 890 895

Pro Ala Ala Met Tyr Glu Val Met Lys Thr Cys Trp Asp Ala Asp Pro
900 905 910

Leu Lys Arg Pro Thr Phe Lys Gln Val Val Gln Leu Ile Glu Lys Gln
915 920 925

Ile Ser Asp Ser Ser Lys His Ile Tyr Ser Asn Leu Ala Asn Cys Asn
930 935 940

Pro Asn Pro Glu Asn Pro Val Val Asp His Ser Val Arg Val Asn
945 950 955 960

Ser Val Gly Ser Ser Thr Ser Thr Gln Pro Leu Leu Val His Glu
965 970 975

Asp Ala